In the Claims

The status of claims in the case is as follows:

1-3. [Canceled]

4. [**Currently amended**] A method for monitoring a computer software system by reading log records written by said software system to determine performance of said software system relative to response time to end users, comprising:

adjustably tuning performance evaluation bias by a computer software monitoring system between processor and memory consumption;

responsive to said bias, monitoring performance of said computer software system with respect to transaction time parameters including said response time to end users;

receiving from a user a first tuning parameter for allocating memory for said monitoring performance and a second tuning parameter for specifying time out for in-flight units of work;

~~The method of claim 1, further comprising:~~

initializing said memory with an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

accumulating time statistics for in-flight transactions in said in-flight transaction cells;

initializing said memory with a completed transactions table for storing time statistics for completed transactions;

receiving from said computer software system a transaction log record for a unit of work;

hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

searching said in-flight transaction cells chain for said unit of work;

responsive to finding said unit of work in said in-flight transaction cells chain, capturing to said in-flight transaction cell timing statistics from said transaction log record;

responsive to not finding said unit of work in said in-flight transaction cells chain, chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record; and

determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said

transaction and removing said in-flight transaction cell from said in-flight transaction cells chain.

5. [**Currently amended**] A method for monitoring a computer software system by reading log records written by said software system to determine performance of said software system relative to response time to end users, comprising:

adjustably tuning performance evaluation bias by a computer software monitoring system between processor and memory consumption;

responsive to said bias, monitoring performance of said computer software system with respect to transaction time parameters including said response time to end users;

receiving from a user a first tuning parameter for allocating memory for said monitoring performance and a second tuning parameter for specifying time out for in-flight units of work;

~~The method of claim 1, further comprising~~

initializing said memory with an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

accumulating time statistics for in-flight transactions in said in-flight transaction cells;

initializing said memory with a completed transactions

table for storing time statistics for completed transactions;

receiving from said computer software system a transaction log record for a unit of work;

hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

searching said in-flight transaction cells chain for said unit of work;

responsive to finding said unit of work in said in-flight transaction cells chain, capturing to said in-flight transaction cell timing statistics from said transaction log record;

responsive to not finding said unit of work in said in-flight transaction cells chain, chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record;

determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing said in-flight transaction cell from said in-flight transaction cells chain; and

determining responsive to said second tuning parameter

if a selected unit of work being accumulated in a selected in-flight transaction cell has timed out, and if so removing from said selected in-flight transaction cell from said in-flight transaction cell chain and selectively updating said completed transactions table with timing statistics for said selected unit of work.

6. [Canceled]

7. [**Currently amended**] A system for monitoring a computer software system by reading log records written by said software system to determine performance of said software system relative to response time to end users, comprising:

a first user actuated tuning knob for allocating space in memory for performance monitoring;

a second user actuated tuning knob for a specifying time out value for in-flight units of work;

a transaction monitor responsive to said first and second user actuated tuning knobs for accumulating, in synonym chain cells in said space, timing statistics for a plurality of said in-flight units of work;

~~The system of claim 6, further comprising:~~

said memory including an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

said in-flight transaction cells for accumulating time

statistics for in-flight transactions;

said memory including a completed transactions table for storing time statistics for completed transactions;

a monitor for receiving from said computer software system a transaction log record for a unit of work;

said monitor hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

said monitor for searching said in-flight transaction cells chain for said unit of work;

said monitor further responsive to finding said unit of work in said in-flight transaction cells chain for capturing to said in-flight transaction cell timing statistics from said transaction log record;

said monitor further responsive to not finding said unit of work in said in-flight transaction cells chain for chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record;

said monitor further for determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing

said in-flight transaction cell from said in-flight transaction cells chain; and

said monitor further for determining responsive to said second tuning knob if a selected unit of work being accumulated in a selected in-flight transaction cell has timed out, and if so removing from said selected in-flight transaction cell from said in-flight transaction cell chain and selectively updating said completed transactions table with timing statistics for said selected unit of work.

8-10. [Canceled]

11. [**Currently amended**] A program storage device readable by a machine, tangibly embodying a program of instructions executable by a machine to perform method steps for monitoring a computer software system by reading log records written by said software system to determine performance of said software system relative to response time to end users, said method comprising:

adjustably tuning performance evaluation bias between processor and memory consumption;

responsive to said bias, monitoring performance of said computer software system with respect to transaction time parameters;

receiving from a user a first tuning parameter for allocating memory for said monitoring performance and a second tuning parameter for specifying time out for in-

flight units of work;

~~The program storage device of claim 8, said method further comprising:~~

initializing said memory with an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

accumulating time statistics for in-flight transactions in said in-flight transaction cells;

initializing said memory with a completed transactions table for storing time statistics for completed transactions;

receiving from said computer software system a transaction log record for a unit of work;

hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

searching said in-flight transaction cells chain for said unit of work;

responsive to finding said unit of work in said in-flight transaction cells chain, capturing to said in-flight transaction cell timing statistics from said transaction log record;

responsive to not finding said unit of work in said in-flight transaction cells chain, chaining a new in-flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record; and

determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing said in-flight transaction cell from said in-flight transaction cells chain.

12. [**Currently amended**] A program storage device readable by a machine, tangibly embodying a program of instructions executable by a machine to perform method steps for monitoring a computer software system by reading log records written by said software system to determine performance of said software system relative to response time to end users, said method comprising:

adjustably tuning performance evaluation bias between processor and memory consumption;

responsive to said bias, monitoring performance of said computer software system with respect to transaction time parameters;

receiving from a user a first tuning parameter for allocating memory for said monitoring performance and a second tuning parameter for specifying time out for in-flight units of work;

~~The program storage device of claim 8, said method further comprising~~

initializing said memory with an in-flight transactions vector table for anchoring synonym chains of in-flight transaction cells;

accumulating time statistics for in-flight transactions in said in-flight transaction cells;

initializing said memory with a completed transactions table for storing time statistics for completed transactions;

receiving from said computer software system a transaction log record for a unit of work;

hashing said first transaction log record to select from said vector table an anchor to an in-flight transaction cells chain corresponding to said unit of work;

searching said in-flight transaction cells chain for said unit of work;

responsive to finding said unit of work in said in-flight transaction cells chain, capturing to said in-flight transaction cell timing statistics from said transaction log record;

responsive to not finding said unit of work in said in-flight transaction cells chain, chaining a new in-

flight transaction cell to said chain and capturing to said new in-flight transaction cell timing statistics from said transaction log record;

determining if said transaction log record completes a transaction and, if so, updating said completed transactions table with timing statistics for said transaction and removing said in-flight transaction cell from said in-flight transaction cells chain; and

determining responsive to said second tuning parameter if a selected unit of work being accumulated in a selected in-flight transaction cell has timed out, and if so removing from said selected in-flight transaction cell from said in-flight transaction cell chain and selectively updating said completed transactions table with timing statistics for said selected unit of work.

13. [Canceled]